

Appendix A

## Radiochemistry

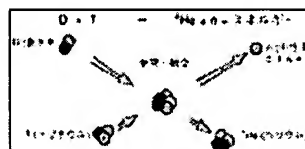
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### (2) Research Subjects

- [ 1 ] High-energy chemical behavior of energetic hydrogen isotopes in plasma facing materials
- [ 2 ] Study on radiochemical stability of metallofullerenes
- [ 3 ] Development of in-line tritium monitoring using hollow-filament type polyimide
- [ 4 ] Chemical behavior of hot tritium at liquid helium
- [ 5 ] Basic studies on effective reprocessing for nuclear fuel wastes



### (3) List of Selected Recent Publications

- [ 1 ] H. Nakamura, T. Hayashi, M. Nishi, M. Arita, and K. Okuno, Implantation driven permeation behavior of deuterium through pure tungsten, *Fusion Eng. Des.*, 55 (2001) 513-520.
- [ 2 ] K. Shimada, T. Tanabe, R. Causey, T. Venhaus, and K. Okuno, Hydrogen recycling study by Balmer lines emissions in linear plasma machine TPE, *J. Nucl. Mater.*, 290-293 (2001) 478-481.
- [ 3 ] Y. Morimoto, S. Akahori, A. Shimada, K. Iguchi, K. Okuno, M. Nishikawa, K. Munakata, A. Baba, T. Kawagoe, H. Moriyama, K. Kawamoto and M. Okada, Correlation between tritium release and thermal annealing of damages in neutron-irradiated Li<sub>4</sub>SiO<sub>4</sub>, *Fusion Technol.*, 39 (2001) 634-638.
- [ 4 ] K. Iguchi, Y. Morimoto, T. Sugiyama, S. Akahori, K. Okuno, H. Nakamura, and M. Nishi, Chemical behavior of energetic deuterium implanted into SiC, Si, and Graphite, *Fusion Technol.*, 39 (2001) 905-909.
- [ 5 ] K. Iguchi, Y. Morimoto, A. Shimada, N. Inuzuka, K. Okuno, H. Nakamura, and M. Nishi, Chemical behavior of energetic deuterium implanted into Silicon Carbide, *J. Plasma and Fusion Res., SERIES*, 3 (2000) 337-341.

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